

## Quiz 9 - MATH 151

DATE: Week 13, April 7 - 11

INSTRUCTOR: George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

1. Compute the derivative of  $f(x) = x^3 \ln(2x)$  (5 points)
2. Find an equation for the tangent line to the graph of  $f(x) = xe^{3x}$  at  $x = 1$ . (5 points)